

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				
PT WASHINGTON TO NORTH PT LT WI COUNTY --- 0.6 N PORT WASHINGTON [43.39, -87.87]				
	06/08/11 06:20 CST	0		Marine Thunderstorm Wind (MG 35 kt)
	06/08/11 06:20 CST	0		Source: C-MAN Station
Small line of strong thunderstorms affected portions of the nearshore waters of Lake Michigan during the morning.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	06/08/11 20:30 CST	0		Marine Thunderstorm Wind (MG 44 kt)
	06/08/11 20:30 CST	0		Source: C-MAN Station
Thirty-two knot sustained winds at the time of the 44 knot wind gust.				
PT WASHINGTON TO NORTH PT LT WI COUNTY --- 0.6 N PORT WASHINGTON [43.39, -87.87]				
	06/08/11 20:35 CST	0		Marine Thunderstorm Wind (MG 38 kt)
	06/08/11 20:50 CST	0		Source: C-MAN Station
Gusts exceeded 34 knots for 15 minutes.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]				
	06/08/11 20:40 CST	0		Marine Thunderstorm Wind (MG 42 kt)
	06/08/11 20:50 CST	0		Source: C-MAN Station
Wind gusts exceeded 34 knots for 10 to 20 minutes.				
A broken line of strong thunderstorms moved over the nearshore waters of Lake Michigan during the evening.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]				
	06/15/11 06:30 CST	0		Marine High Wind (MG 58 kt)
	06/15/11 07:10 CST	0		Source: C-MAN Station
Wind gusts of 37 to 58 knots from 630 am CST to 710 am CST. Sustained winds of 53 knots with a gust to 58 knots at 650 am CST.				
Strong winds caused by a wake low pressure affected the southern portion of the nearshore and open waters of Lake Michigan for 30 to 45 minutes.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	06/21/11 19:00 CST	0		Marine Thunderstorm Wind (MG 41 kt)
	06/21/11 19:00 CST	0		Source: C-MAN Station
Several rounds of strong thunderstorms affected the near shore waters of Lake Michigan during the afternoon of June 21st. One line of thunderstorms resulted in strong winds at one of the marine observations stations.				
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]				
	06/30/11 19:20 CST	0		Marine Thunderstorm Wind (MG 57 kt)
	06/30/11 20:10 CST	0		Source: C-MAN Station
Strong outflow winds affected the nearshore waters from Wind Point to Winthrop Harbor for about 50 minutes. The strongest measured gust was 57 knots at 1940 LST. At 1920 LST, sustained winds reached 39 knots, with a gust to 53 knots. Gusts exceeded 33 knots from 1920 LST until 2010 LST.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	06/30/11 19:30 CST	0		Marine Thunderstorm Wind (MG 34 kt)
	06/30/11 19:30 CST	0		Source: C-MAN Station
Strong thunderstorms moving south over the near shore and open waters of Lake Michigan produced damaging outflow winds.				
WISCONSIN, Southeast				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SAUK COUNTY --- 4.0 W REEDSBURG [43.53, -90.08]				
	06/06/11 04:20 CST		0	Hail (2.50 in)
	06/06/11 04:20 CST		0	Source: Law Enforcement
SAUK COUNTY --- LOGANVILLE [43.43, -90.03]				
	06/06/11 04:40 CST		0	Hail (4.25 in)
	06/06/11 04:40 CST		0	Source: Public
SAUK COUNTY --- 1.0 S NORTH FREEDOM [43.46, -89.87]				
	06/06/11 04:58 CST		0	Hail (2.75 in)
	06/06/11 04:58 CST		0	Source: Law Enforcement
COLUMBIA COUNTY --- 6.0 SW DEKORRA [43.41, -89.55]				
	06/06/11 05:00 CST		0	Hail (1.00 in)
	06/06/11 05:00 CST		0	Source: Public
SAUK COUNTY --- 1.0 S BARABOO [43.46, -89.73], 5.0 S BARABOO [43.40, -89.73]				
	06/06/11 05:35 CST		0	Hail (1.75 in)
	06/06/11 05:35 CST		0	Source: Amateur Radio
MARQUETTE COUNTY --- 2.0 S ENDEAVOR [43.67, -89.47]				
	06/06/11 05:50 CST		0	Hail (1.00 in)
	06/06/11 05:50 CST		0	Source: Public
COLUMBIA COUNTY --- ARLINGTON [43.33, -89.37]				
	06/06/11 06:25 CST		0	Hail (1.00 in)
	06/06/11 06:25 CST		0	Source: Public
MARQUETTE COUNTY --- 3.0 SW GLENOAK [43.72, -89.37]				
	06/06/11 06:27 CST		0	Hail (1.25 in)
	06/06/11 06:27 CST		0	Source: Public
DODGE COUNTY --- 1.0 E RUBICON [43.33, -88.45]				
	06/06/11 08:19 CST		0	Hail (1.75 in)
	06/06/11 08:19 CST		0	Source: Amateur Radio
GREEN LAKE COUNTY --- 2.0 W BERLIN [43.97, -88.97], BERLIN [43.97, -88.93]				
	06/06/11 08:22 CST		0	Hail (1.00 in)
	06/06/11 08:25 CST		0	Source: Emergency Manager
WASHINGTON COUNTY --- 1.5 SW HARTFORD [43.30, -88.40], 2.0 S SLINGER [43.30, -88.28]				
	06/06/11 08:25 CST		0.10M	Hail (1.75 in)
	06/06/11 08:35 CST		0	Source: Emergency Manager
This hail swath was about 3 miles wide, resulting in numerous dented vehicles. Damage amount is rough estimate.				
FOND DU LAC COUNTY --- 5.0 NE RIPON [43.88, -88.76], 6.0 NE ROSENDALE [43.86, -88.59]				
	06/06/11 08:45 CST		0	Hail (1.00 in)
	06/06/11 09:10 CST		0	Source: Public
This hail swath was about 3 miles wide.				
FOND DU LAC COUNTY --- 2.0 NW EDEN [43.72, -88.40]				
	06/06/11 09:18 CST		0	Hail (1.00 in)
	06/06/11 09:18 CST		0	Source: Public

Low level warm air advection and moisture transport produced increasing instability over the region as it pushed a surface warm front toward Wisconsin during the early morning hours of June 6th. A cluster of strong to severe elevated thunderstorms formed on the

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leading edge of the strengthening low-level jet as it veered south-southwest, focusing on southern Wisconsin during the early daylight hours. Moderate elevated instability...steepening mid-level lapse rates and increasing effective bulk shear up to 50 knots supported the development of severe thunderstorms with large hail that affected mainly the northern half of the Milwaukee/Sullivan County Warning Area.

(WI-Z062) IOWA, (WI-Z067) LAFAYETTE

06/07/11 11:00 CST	0	Heat
06/07/11 19:00 CST	0	

A warm and humid air mass settled over southern Wisconsin, with high temperatures reaching the middle to upper 90s. Dew points initially were in the mid to upper 60s, and then fell into the upper 50s during the afternoon. The combination of the hot temperatures and moist dew points produced heat index values of 100 to 104 over southern portions of Iowa County and northern Lafayette County. Heat index values ranged between 92 and 98 across the remainder of southern Wisconsin.

FOND DU LAC COUNTY --- 1.0 S FOND DU LAC [43.77, -88.45]

06/08/11 04:50 CST	0	Hail (0.75 in)
06/08/11 04:50 CST	0	Source: Emergency Manager

WASHINGTON COUNTY --- SLINGER [43.33, -88.28]

06/08/11 06:50 CST	0	Thunderstorm Wind (EG 56 kt)
06/08/11 06:50 CST	0	Source: Law Enforcement

Trees were blown over, large tree branches were broken, and some power lines were brought down.

LAFAYETTE COUNTY --- ARGYLE [42.70, -89.87]

06/08/11 07:10 CST	0	Hail (0.75 in)
06/08/11 07:10 CST	0	Source: Post Office

JEFFERSON COUNTY --- JOHNSON CREEK [43.08, -88.77]

06/08/11 08:22 CST	0	Hail (0.75 in)
06/08/11 08:22 CST	0	Source: Trained Spotter

DODGE COUNTY --- 3.0 SE LEBANON [43.22, -88.59]

06/08/11 08:30 CST	0	Hail (0.75 in)
06/08/11 08:30 CST	0	Source: Trained Spotter

WASHINGTON COUNTY --- 3.0 N HARTFORD [43.36, -88.38]

06/08/11 08:46 CST	0	Hail (1.00 in)
06/08/11 08:49 CST	0	Source: Trained Spotter

Some vehicles received minor denting.

GREEN COUNTY --- MONROE [42.60, -89.63], ALBANY [42.70, -89.43]

06/08/11 09:20 CST	0.20M	Thunderstorm Wind (EG 61 kt)
06/08/11 09:30 CST	0	Source: Law Enforcement

This was a "heat burst" - generated by a decaying convective rain shower band which resulted in evaporation of most of the rain that caused gusty southwest winds and rising temperatures of 10 to 20 degrees F. Large trees were blown down in Albany, and 2 buildings in Monroe were damaged. Additionally, there were scattered reports of broken power poles and power lines. The damage swath was about 5 miles wide.

ROCK COUNTY --- 2.0 SW EVANSVILLE [42.76, -89.33], EDGERTON [42.83, -89.07]

06/08/11 09:35 CST	50K	Thunderstorm Wind (EG 61 kt)
06/08/11 10:00 CST	0	Source: Law Enforcement

This was a "heat burst" - generated by a decaying convective rain shower band which resulted in evaporation of most of the rain that caused gusty southwest winds and rising temperatures of 10 to 20 degrees F. Two trailers in Edgerton were blown over and damaged: one was construction trailer and the other a semi-truck trailer. Also - a racetrack concession stand was demolished by the winds. Additionally, a few large trees were blown down and broken tree limbs knocked some power lines down. The damage swath was about 5 miles wide.

Increasing warm air advection and moisture transport on a 50 to 60 knot low-level jet, with increasing instability under steepening mid-level lapse rates, produced elevated thunderstorms with large hail during the early morning hours of June 8th. As the nocturnal low level inversion mixed out with daytime heating during the mid-morning hours, the storms became surface based, with damaging

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wind gusts as well as large hail. Additionally, the elevated nature of the showers and thunderstorms, especially in far southern Wisconsin, caused the rain underneath to evaporate before reaching the ground. The evaporated rain cooled the air below the cloud base and caused it to accelerate toward the ground, creating isolated heat bursts in Green and Rock counties with damaging wind gusts that downed trees and power lines, and also rapidly raised air temperatures 10 to 20 degrees F.				
IOWA COUNTY --- 7.0 N HIGHLAND [43.15, -90.38]				
	06/08/11 16:28 CST		0	Hail (1.00 in)
	06/08/11 16:28 CST		0	Source: Trained Spotter
IOWA COUNTY --- 7.0 N HIGHLAND [43.15, -90.38]				
	06/08/11 17:12 CST		0	Hail (1.00 in)
	06/08/11 17:12 CST		0	Source: Law Enforcement
IOWA COUNTY --- 7.0 N HIGHLAND [43.15, -90.38]				
	06/08/11 17:13 CST		0	Hail (2.50 in)
	06/08/11 17:13 CST		0	Source: Broadcast Media
The report was received from WMTV-15 in Madison.				
IOWA COUNTY --- 7.0 N HIGHLAND [43.15, -90.38]				
	06/08/11 17:14 CST		0	Hail (1.75 in)
	06/08/11 17:22 CST		0	Source: Trained Spotter
IOWA COUNTY --- 1.0 NNE DODGEVILLE [42.98, -90.12]				
	06/08/11 17:26 CST		0	Funnel Cloud
	06/08/11 17:26 CST		0	Source: Trained Spotter
SAUK COUNTY --- 2.0 N PLAIN [43.31, -90.05]				
	06/08/11 17:30 CST		0	Hail (1.50 in)
	06/08/11 17:30 CST		0	Source: Public
MARQUETTE COUNTY --- 4.0 NE MONTELLO [43.84, -89.26]				
	06/08/11 17:45 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 17:45 CST		0	Source: Newspaper
Several large trees were blown down.				
MARQUETTE COUNTY --- BRIGGSVILLE [43.65, -89.58]				
	06/08/11 18:05 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 18:05 CST		0	Source: Newspaper
Several trees were uprooted.				
IOWA COUNTY --- 3.0 NW BARNEVELD [43.05, -89.94]				
	06/08/11 18:10 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 18:10 CST		0	Source: Trained Spotter
Several large trees were uprooted and large branches were broken.				
IOWA COUNTY --- BARNEVELD [43.02, -89.90]				
	06/08/11 18:14 CST		0	Hail (0.75 in)
	06/08/11 18:14 CST		0	Source: Trained Spotter
DANE COUNTY --- 2.0 WNW MT HOREB [43.01, -89.77], MT HOREB [43.00, -89.73]				
	06/08/11 18:15 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 18:20 CST		0	Source: Newspaper
Powerful thunderstorm winds pushed over several large trees, and broken tree branches snapped a few power-lines in a 2 to 3 mile wide swath. A business's tower was toppled into its parking lot.				

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GREEN LAKE COUNTY --- DALTON [43.65, -89.20], GREEN LAKE [43.83, -88.95]				
	06/08/11 18:19 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 18:37 CST		0	Source: Fire Department/Rescue
This downburst swath was about 10 miles wide. Trees and power lines were brought down.				
DANE COUNTY --- 2.0 S MT HOREB [42.97, -89.73]				
	06/08/11 18:20 CST		0	Hail (2.75 in)
	06/08/11 18:20 CST		0	Source: Broadcast Media
This report was received from WMTV-15 in Madison.				
GREEN LAKE COUNTY --- MARQUETTE [43.75, -89.14]				
	06/08/11 18:23 CST		0	Hail (1.00 in)
	06/08/11 18:23 CST		0	Source: Emergency Manager
DANE COUNTY --- 4.0 WSW VERONA [42.96, -89.60], 0.5 NW VERONA [42.99, -89.54]				
	06/08/11 18:38 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 18:42 CST		0	Source: Trained Spotter
Downburst tree damage was caused by downdrafts in a super-cell thunderstorm that spun up a nearby tornado that passed through the south side of Verona to north of McFarland.				
IOWA COUNTY --- 4.0 SW MINERAL PT [42.81, -90.24]				
	06/08/11 18:40 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 18:40 CST		0	Source: Public
A few large trees were blown over and large branches knocked down.				
DANE COUNTY --- 2.7 W VERONA [42.98, -89.58], 1.6 WNW HOPE [43.06, -89.26]				
	06/08/11 18:41 CST		0.10M	Tornado (EF0, L: 17.15 mi , W: 100 yd)
	06/08/11 19:02 CST		0	Source: NWS Storm Survey
This tornado spun up southwest of Verona about 1/2 mile southwest of the intersection of CTH G and Sugar River Road, and traveled east-northeast to about 3 miles northeast of McFarland about 1.5 miles east-northeast of the intersection of Interstate 39/90 and STH 12/18. The damage path was sporadic. On the south side of Verona, numerous trees were uprooted, a garage was crushed by a fallen tree, and 3 vehicles were damaged by fallen trees. Several power lines were pulled down by broken tree branches. Scattered uprooted trees and/or broken tree branches were seen along the remainder of the tornado path. However, most of the damage occurred in the Verona area. Maximum winds in this EF1 tornado were about 95 mph based on DI 27 (TH), DOD 3. The actual starting location was 42.98002/-89.58399 and the ending location was 43.05538/-89.26050. The average path width was about 70 yards.				
FOND DU LAC COUNTY --- 5.0 NNE ROSENDALE [43.87, -88.64]				
	06/08/11 18:45 CST		0	Hail (1.00 in)
	06/08/11 18:45 CST		0	Source: Public
DANE COUNTY --- MONONA [43.07, -89.32]				
	06/08/11 18:47 CST		0	Hail (1.00 in)
	06/08/11 18:47 CST		0	Source: Trained Spotter
DANE COUNTY --- 3.0 NE MC FARLAND [43.05, -89.24]				
	06/08/11 18:50 CST		0	Hail (1.75 in)
	06/08/11 18:50 CST		0	Source: Law Enforcement
IOWA COUNTY --- REWEY [42.85, -90.40]				
	06/08/11 18:50 CST		0	Thunderstorm Wind (EG 70 kt)
	06/08/11 18:50 CST		0	Source: Law Enforcement
A couple of utility poles were pushed over by powerful thunderstorm wind gusts.				
DANE COUNTY --- BELLEVILLE [42.85, -89.53]				

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	06/08/11 18:54 CST		0	Thunderstorm Wind (EG 70 kt)
	06/08/11 18:54 CST		0	Source: Trained Spotter

Several large trees were uprooted as the rain and small hail moved horizontally.

DANE COUNTY --- 1.0 E VERONA [42.98, -89.51]

06/08/11 18:55 CST	0	Hail (1.75 in)
06/08/11 18:55 CST	0	Source: Law Enforcement

DANE COUNTY --- MC FARLAND [43.02, -89.28]

06/08/11 18:55 CST	0	Thunderstorm Wind (MG 61 kt)
06/08/11 18:55 CST	0	Source: Trained Spotter

A gust of 70 mph was measured on a home weather station. Numerous branches were knocked down in the McFarland area. The gusts were probably related to the rear flank downdraft of the supercell tornado that tracked just northeast of McFarland around 2000 CST (8 pm CDT).

DANE COUNTY --- MC FARLAND [43.02, -89.28]

06/08/11 18:55 CST	0	Thunderstorm Wind (MG 61 kt)
06/08/11 18:55 CST	0	Source: Trained Spotter

Several large trees were uprooted by powerful thunderstorm winds.

DANE COUNTY --- SHOREWOOD HILLS [43.08, -89.47]

06/08/11 18:56 CST	0	Hail (0.88 in)
06/08/11 18:56 CST	0	Source: Trained Spotter

DANE COUNTY --- 2.0 W DOWNTOWN MADISON [43.07, -89.46]

06/08/11 19:00 CST	0	Hail (1.50 in)
06/08/11 19:00 CST	0	Source: Broadcast Media

GREEN COUNTY --- NEW GLARUS [42.82, -89.63]

06/08/11 19:00 CST	0	Thunderstorm Wind (EG 65 kt)
06/08/11 19:05 CST	0	Source: Newspaper

Powerful thunderstorm winds, accompanied by heavy rains, uprooted several large trees in and around New Glarus, and broken tree branches snapped several power lines. in New Glarus, a home's roof and a backyard wooden deck suffered minor damage when a large tree fell on it.

ROCK COUNTY --- EVANSVILLE [42.78, -89.30]

06/08/11 19:08 CST	0	Thunderstorm Wind (MG 51 kt)
06/08/11 19:08 CST	0	Source: Trained Spotter

Officials reported up to 40 large trees uprooted, and numerous branches broken by powerful thunderstorm winds.

GREEN COUNTY --- NEW GLARUS [42.82, -89.63]

06/08/11 19:10 CST	0	Thunderstorm Wind (EG 65 kt)
06/08/11 19:15 CST	0	Source: Newspaper

Powerful thunderstorm winds, accompanied by heavy rains, uprooted several large trees in and around Monticello, and broken tree branches snapped several power lines.

DANE COUNTY --- 3.0 NNW ALBION [42.92, -89.09]

06/08/11 19:13 CST	50K	Thunderstorm Wind (EG 70 kt)
06/08/11 19:13 CST	0	Source: NWS Storm Survey

A grain bin was destroyed and and several large trees were uprooted.

DANE COUNTY --- OREGON [42.93, -89.38], STOUGHTON [42.92, -89.22]

06/08/11 19:15 CST	0	Thunderstorm Wind (EG 70 kt)
06/08/11 19:25 CST	0	Source: Newspaper

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Powerful thunderstorm winds pushed over dozens of large trees, and broken tree branches snapped several power-lines in a 5-mile-wide swath. In Stoughton, the winds knocked over an empty semi-trailer which then impacted and damaged two other trailers. Also, a road sign in Stoughton was pushed over at a 45-degree angle.				

GREEN COUNTY --- DAYTON [42.82, -89.50], ALBANY [42.70, -89.43]

06/08/11 19:15 CST	0	Thunderstorm Wind (EG 65 kt)
06/08/11 19:25 CST	0	Source: Trained Spotter

Dozens of large trees were uprooted by powerful thunderstorm winds and broken tree branches in a 3-mile wide swath from 3 miles southeast of Dayton to the Albany area. Near the intersection of STH 59 and CTH F, a barn, built in the 1940s, was pushed over by the winds. A hanger at the Albany Airport on STH 59 was damaged by the winds. A few miles north-northwest of Albany the winds damaged some siding and the roof of a barn.

DODGE COUNTY --- FOX LAKE [43.57, -88.90]

06/08/11 19:16 CST	0	Hail (0.88 in)
06/08/11 19:16 CST	0	Source: Trained Spotter

DANE COUNTY --- 2.0 WSW SUN PRAIRIE [43.17, -89.24], SUN PRAIRIE [43.18, -89.20]

06/08/11 19:17 CST	0	Thunderstorm Wind (EG 65 kt)
06/08/11 19:25 CST	0	Source: Trained Spotter

Powerful thunderstorm winds pushed over several large trees, and a flag pole was pushed down.

GREEN COUNTY --- 2.0 SSW ALBANY [42.67, -89.45]

06/08/11 19:20 CST	3K	Lightning
06/08/11 19:20 CST	0	Source: Newspaper

Lightning struck a power transformer which then caught fire.

ROCK COUNTY --- EVANSVILLE [42.78, -89.30], MILTON [42.77, -88.95]

06/08/11 19:22 CST	0	Thunderstorm Wind (EG 70 kt)
06/08/11 19:45 CST	0	Source: Trained Spotter

Powerful thunderstorm winds pushed over dozens of large trees, and broken tree branches snapped several power lines in a 7-mile wide swath from Evansville to Milton. In the Township of Milton, on STH 59, the skeleton of a old barn was blown down.

GREEN COUNTY --- BRODHEAD [42.62, -89.37]

06/08/11 19:25 CST	0	Thunderstorm Wind (EG 70 kt)
06/08/11 19:25 CST	0	Source: Newspaper

In the Brodhead area, powerful thunderstorm winds uprooted a few dozen trees and broken branches fell on and snapped several power lines.

JEFFERSON COUNTY --- 2.0 NNE CAMBRIDGE [43.03, -88.98], JEFFERSON [43.00, -88.80]

06/08/11 19:25 CST	0	Thunderstorm Wind (EG 65 kt)
06/08/11 19:30 CST	0	Source: Amateur Radio

Powerful thunderstorm winds raked the area from around Cambridge east to the Jefferson area. Dozens of large trees were uprooted, and a number of power-lines and power-poles were snapped by broken tree branches. In Jefferson, three buildings were damaged: one of them had extensive damage to its roof and interior ceilings, a business's outdoor sign was damaged, and motel had a roof peel and several imploded windows. A fence in a subdivision east of Cambridge was blown down. A few roads were temporarily closed until tree debris was removed.

JEFFERSON COUNTY --- LAKE MILLS [43.08, -88.90]

06/08/11 19:25 CST	0	Thunderstorm Wind (EG 65 kt)
06/08/11 19:30 CST	0	Source: Newspaper

Powerful thunderstorm wind gusts toppled several large trees. One of the trees crashed onto a home and resulted in minor damage.

JEFFERSON COUNTY --- 5.0 SW FT ATKINSON [42.88, -88.92], FT ATKINSON [42.93, -88.85]

06/08/11 19:30 CST	0	Thunderstorm Wind (EG 65 kt)
06/08/11 19:30 CST	0	Source: Newspaper

Powerful thunderstorm wind gusts toppled several large trees. One of the trees crashed onto and damaged a 5th wheel camper southwest of Ft. Atkinson. Elsewhere in the Ft. Atkinson area, a roof on a home's 3-season room was ripped off by the powerful winds, and another home received moderate damage when a large tree punctured down through the roof onto a bathtub.

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JEFFERSON COUNTY --- HEBRON [42.93, -88.70]				
	06/08/11 19:35 CST		0	Thunderstorm Wind (EG 70 kt)
	06/08/11 19:35 CST		0	Source: NWS Employee
Powerful thunderstorm winds pushed over several large trees.				
WALWORTH COUNTY --- 2.0 W DELAVAN [42.63, -88.67]				
	06/08/11 19:35 CST		0	Thunderstorm Wind (EG 70 kt)
	06/08/11 19:35 CST		0	Source: Amateur Radio
Powerful thunderstorm winds pushed over several large trees. Roof damage was inflicted on some buildings, but the extent is unknown.				
GREEN COUNTY --- MONROE [42.60, -89.63]				
	06/08/11 19:45 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 19:50 CST		0	Source: Emergency Manager
Powerful thunderstorm winds, accompanied by heavy rains, uprooted several large trees and broken tree branches snapped several power lines.				
WALWORTH COUNTY --- LAKE GENEVA [42.60, -88.43]				
	06/08/11 19:54 CST		0	Thunderstorm Wind (MG 54 kt)
	06/08/11 19:54 CST		0	Source: Amateur Radio
Powerful thunderstorm winds pushed over several large trees.				
WALWORTH COUNTY --- 2.0 N DARIEN [42.63, -88.70]				
	06/08/11 19:56 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 19:56 CST		0	Source: Amateur Radio
Powerful thunderstorm winds pushed over several large trees.				
ROCK COUNTY --- 5.0 NE CLINTON [42.62, -88.80]				
	06/08/11 20:03 CST		0	Thunderstorm Wind (EG 70 kt)
	06/08/11 20:03 CST		0	Source: Trained Spotter
Powerful thunderstorm winds toppled several large trees.				
WAUKESHA COUNTY --- 1.0 NE MUSKEGO [42.91, -88.12]				
	06/08/11 20:10 CST		0	Thunderstorm Wind (EG 65 kt)
	06/08/11 20:10 CST		0	Source: Trained Spotter
Powerful thunderstorm winds toppled several large trees. A few pieces of siding was removed from a home.				
JEFFERSON COUNTY --- 3.7 NE OAK HILL [42.97, -88.55]				
	06/08/11 20:14 CST		0	Thunderstorm Wind (EG 52 kt)
	06/08/11 20:14 CST		0	Source: NWS Employee
Powerful thunderstorm winds broke numerous large tree branches and toppled several large trees in the vicinity of the Milwaukee/Sullivan WFO.				
RACINE COUNTY --- BURLINGTON [42.67, -88.27]				
	06/08/11 20:20 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 20:20 CST		0	Source: Newspaper
Strong winds knocked large branches out of trees and uprooted a couple dozen large trees. A few power-lines were snapped by the broken branches. Two roads were blocked by the tree debris.				
MILWAUKEE COUNTY --- WEST ALLIS [43.00, -87.97]				
	06/08/11 20:23 CST		0	Hail (1.00 in)
	06/08/11 20:23 CST		0	Source: Amateur Radio
RACINE COUNTY --- 4.0 NW STURTEVANT [42.74, -87.96], DOWNTOWN RACINE [42.72, -87.80]				

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/08/11 20:30 CST		0	Thunderstorm Wind (EG 56 kt)
	06/08/11 20:45 CST	2	0	Source: Amateur Radio

A 5-mile wide swath of thunderstorm wind damage occurred from the Interstate-94 area west of Racine to the city of Racine. Semi-tractor trailers were blown over on Interstate-94 at STH 11 and CTH K, resulting in the injury of two drivers. A 33-foot long sailboat, that was still on land and located on the shore of the Root River near downtown Racine, was blown over and damaged. Otherwise a couple dozen large trees were uprooted in the swath and there were reports of many large broken tree branches.

MILWAUKEE COUNTY --- 2.1 WSW WEST ALLIS [42.99, -88.01], 1.0 W CUDAHY [42.95, -87.87]

06/08/11 20:31 CST	0	Thunderstorm Wind (MG 57 kt)
06/08/11 20:45 CST	0	Source: Trained Spotter

Strong winds knocked large branches out of trees and toppled several large trees. Some power-lines were snapped by tree debris. A trained spotter in Cudahy had a measured wind gust of 66 mph.

MILWAUKEE COUNTY --- GREENFIELD [42.95, -88.00]

06/08/11 20:45 CST	0	Thunderstorm Wind (EG 56 kt)
06/08/11 20:45 CST	0	Source: Trained Spotter

Strong winds knocked large branches out of trees and uprooted a couple large trees.

Forcing along an advancing cold front moving into a warm, moist unstable air mass over the region produced severe thunderstorms with a tornado, damaging winds and large hail over south-central and southeast Wisconsin during the evening hours of June 8th. The combination of instability, with surface-based CAPE of 3000 J/kg, and 0 to 6 km bulk shear of 40 knots produced supercell thunderstorms, with one of the cells developing an EF1 tornado over central Dane County that uprooted trees, felled power-lines, damaged three vehicles and crushed a garage. A cluster of supercell thunderstorms from Lafayette into Dane County then congealed into a bowing line that moved due east and created damaging wind gusts of 60 to 80 mph across much of the area along and south of Interstate-94. At the height of the event, over 27,000 customers had no electric power in Southeast Wisconsin, and probably another 15 to 20,000 customers in south-central Wisconsin lost power.

(WI-Z072) KENOSHA

06/15/11 06:25 CST	10K	High Wind (MAX 58 kt)
06/15/11 07:00 CST	0	

Focused warm air advection ahead of a short wave trough produced showers and thunderstorms that moved across southern Wisconsin early in the morning of June 15th. A wake low developed behind the departing line of showers and storms, creating damaging wind gusts between 40 and 70 mph (35 to 61 knots) in eastern Kenosha County within 2 to 3 miles of the Lake Michigan shore. The marine observation site at Kenosha Harbor clocked a 67 mph (58 knot) wind gust, while the Kenosha Municipal Airport recorded a gust of 45 mph (39 knots). The gusty winds blew down trees and a few power lines in the city of Kenosha, and felled trees that blocked some roads in Pleasant Prairie.

DODGE COUNTY --- 2.5 NE HERMAN CENTER [43.45, -88.44]

06/19/11 14:55 CST	0	Tornado (EF0, L: 0.10 mi , W: 20 yd)
06/19/11 14:55 CST	0	Source: Trained Spotter

A trained storm spotter witnessed a brief EF0 tornado that touched down about 2.7 miles northeast of Herman Center in Dodge County, just north of the intersection of County Road DW and Freedom Road. The tornado traveled less than one-tenth of a mile before dissipating. The maximum path width of the tornado was 20 yards with an average path width of 10 yards. The spotter noted small tree limbs snapped off, and tall grass flattened in a swirl pattern by the winds from the tornado. The EF0 rating was determined by using DI 27(TH), DOD1 with winds of 65 mph. The exact location was 43.4497/-88.44074.

Lift generated by a short wave acted on a moist and unstable air mass to produce afternoon thunderstorms over portions of southern Wisconsin. While overall conditions were not favorable for supercell development, high 0 to 3km helicity and high 0-3km CAPE were sufficient to increase the stretching potential of any thunderstorm updraft to produce non-supercell tornadoes. A brief EF0 tornado touched down about 5 miles south of Theresa in Dodge County, breaking off small tree limbs and flattening tall grass in a swirl pattern.

JEFFERSON COUNTY --- 2.7 SE PALMYRA [42.85, -88.56]

06/21/11 13:45 CST	0	Thunderstorm Wind (EG 56 kt)
06/21/11 13:45 CST	0	Source: NWS Employee

A National Weather Service employee reported 12 inch and larger tree limbs blown down by thunderstorm wind gusts estimated at 65 mph (56 knots).

WAUKESHA COUNTY --- 4.0 NW EAGLE [42.92, -88.53], 2.0 NE NORTH LAKE [43.19, -88.34]

06/21/11 13:50 CST	0.28M	Thunderstorm Wind (EG 96 kt)
06/21/11 14:13 CST	1	Source: Law Enforcement

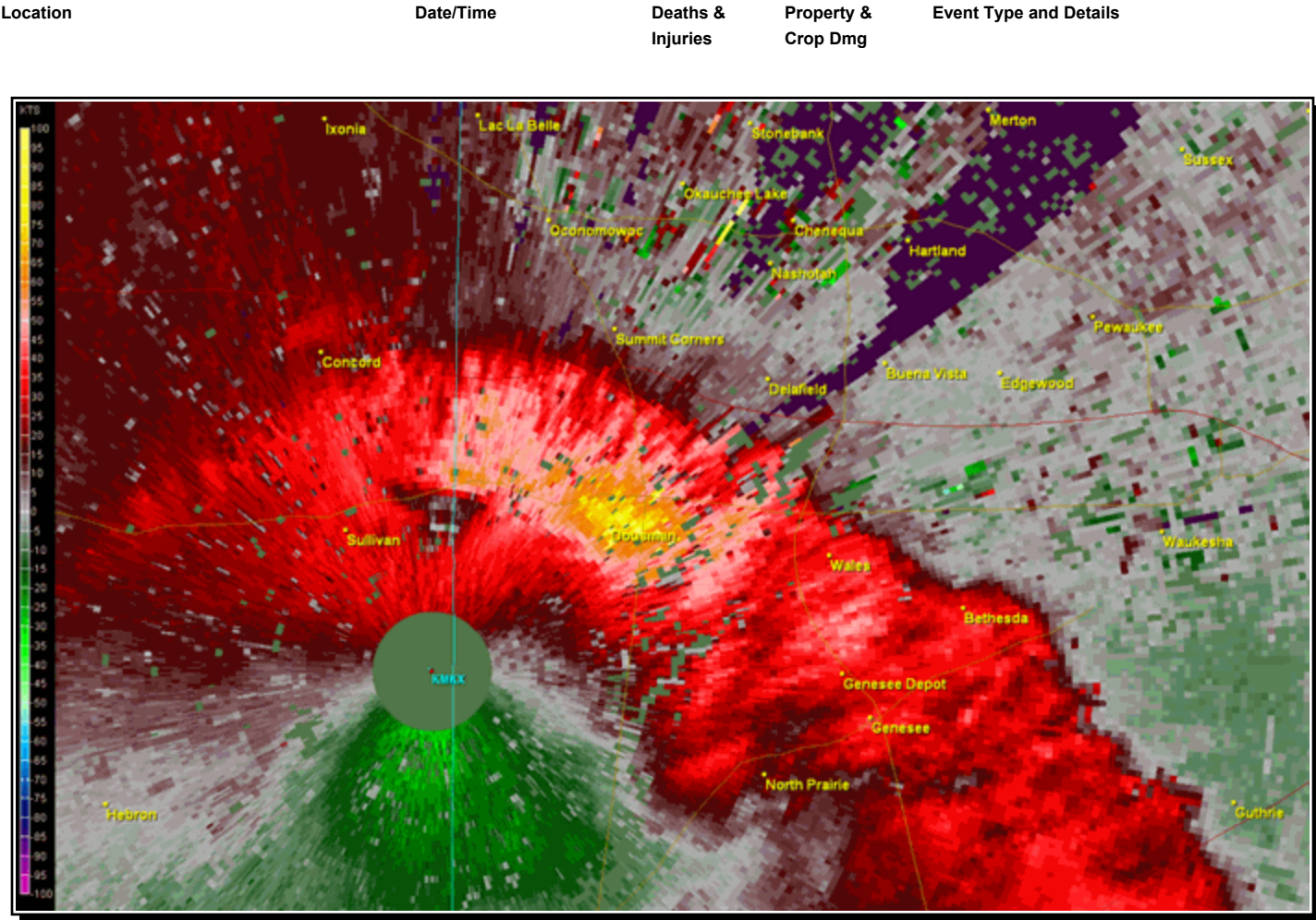
Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A 2-mile wide swath of damage was caused by a microburst associated with a bowing line of severe thunderstorms that tracked from southwest to northeast across a large portion of Waukesha County. Wind gusts estimated up to between 100 to 110 mph (87 to 96 knots) dropped thousands of trees, damaged homes and barns and blew down power lines that left 10,000 customers without power in Waukesha County. One person was injured by airborne tree debris near the Pewaukee and Delafield town borders. A semi-trailer truck was blown over on Interstate-94 in Waukesha County, while two other high-profile vehicles were nearly blown over by the strong winds, but concrete construction barriers saved the vehicles from being completely blown over.				
WAUKESHA COUNTY --- 2.0 SE EAGLE [42.86, -88.44]				
	06/21/11 13:54 CST		0	Thunderstorm Wind (MG 69 kt)
	06/21/11 13:54 CST		0	Source: Trained Spotter
FOND DU LAC COUNTY --- 4.4 WSW ALTO [43.67, -88.87], 3.7 SSW FAIRWATER [43.70, -88.89]				
	06/21/11 14:21 CST		30K	Tornado (EF1, L: 2.61 mi , W: 150 yd)
	06/21/11 14:31 CST		0	Source: NWS Storm Survey
This EF1 tornado touched down about 4.4 miles west-southwest of the town of Alto in Fond Du Lac County, on Marshview Road, about one-third of a mile north of Lake Maria Road, and tracked about 2.6 miles to the north-northwest before crossing into Green Lake County, about 3.7 miles south-southwest of Fairwater, at County Road S approximately 1/4 mile east of Schure Road. This tornado exhibited three separate damage tracks within the path, suggesting three separate vortices formed and dissipated during the life span of the tornado. The average path width was 75 yards, with a maximum path width of 105 yards. The tornado blew over trees and flattened a pole shed. The EF1 rating was determined by using DI 21(MBS) DOD5 LB to EXP with estimated winds speeds of 105 mph. The exact starting point was 43.77112/-88.88480 and the exact ending point was 43.78370/-88.88558.				
GREEN LAKE COUNTY --- 5.0 E MARKESAN [43.72, -88.88]				
	06/21/11 14:28 CST		0	Thunderstorm Wind (EG 50 kt)
	06/21/11 14:28 CST		0	Source: Emergency Manager
The Green Lake County Emergency Manager reported trees blown down, most likely from the forward flank downdraft from the tornadic thunderstorm that moved through the extreme eastern sections of the county.				
GREEN LAKE COUNTY --- 4.9 ESE MARKESAN [43.70, -88.89], 3.7 E MARKESAN [43.73, -88.91]				
	06/21/11 14:31 CST		5K	Tornado (EF1, L: 2.16 mi , W: 150 yd)
	06/21/11 14:33 CST		0	Source: NWS Storm Survey
This EF1 tornado crossed into Green Lake County from Fond Du Lac County, about 4.9 miles east-southeast of Markesan, at County Road S approximately 1/4 mile east of Schure Road, and traveled a little over 2 miles to the north-northwest before dissipating approximately 3.7 miles east of Markesan, about 1200 feet northwest of the intersection of Utley Road and County Trunk Highway Q. The average path width was 75 yards, with a maximum path width of 105 yards. The tornado blew over trees and blew a door and a side panel off a pole shed. Roof shingles were also blown off of several buildings, with one home having minor roof, gutter and awning damage. The EF1 rating was determined by using DI 27(TH) DOD4 LB toward EXP with estimated winds speeds of 100 mph. The exact starting point was 43.78370/-88.88558 and the exact ending point was 43.79798/-88.91194.				
FOND DU LAC COUNTY --- 2.3 NW FAIRWATER [43.77, -88.88], 2.9 NW FAIRWATER [43.78, -88.89]				
	06/21/11 14:36 CST		15K	Tornado (EF1, L: 0.87 mi , W: 100 yd)
	06/21/11 14:38 CST		0	Source: NWS Storm Survey
This EF1 tornado touched down approximately 2.3 miles of northwest of Fairwater, about 200 feet southeast of the intersection of Watson Road and Searl Road/County Line Road, and traveled nearly parallel to County Line Road for almost a mile to the north-northwest before crossing County Line Road about 2000 feet north of Carter Road into Green Lake County. The average path width was 60 yards, with a maximum path width of 100 yards. The tornado uprooted trees and tore away a wall and part of the roof of a barn. The EF1 rating was determined by using DI 1(SBO) DOD4 EXP toward UB with estimated winds speeds of 95 mph. The exact starting point was 43.66761/-88.86583 and the exact ending point was 43.70275/-88.88517.				
GREEN LAKE COUNTY --- 4.5 SE GREEN LAKE [43.78, -88.89], 2.9 SE GREEN LAKE [43.80, -88.91]				
	06/21/11 14:38 CST		2K	Tornado (EF1, L: 1.64 mi , W: 100 yd)
	06/21/11 14:40 CST		0	Source: NWS Storm Survey
This EF1 tornado entered into Green Lake County from Fond Du Lac County at Searl Road/ County Line Road about 2000 feet north of Carter Road into Green Lake County. The average path width was 60 yards, with a maximum path width of 100 yards. The tornado uprooted trees and tore away metal panels off the roof of a pole shed. The EF1 rating was determined by using DI 21(MBS) DOD 3 EXP with estimated winds speeds of 95 mph. The exact starting point was 43.70275/-88.88517 and the exact ending point was 43.72962/-88.90737.				
GREEN LAKE COUNTY --- 5.0 S BERLIN [43.90, -88.93]				
	06/21/11 15:14 CST		0	Funnel Cloud
	06/21/11 15:14 CST		0	Source: Emergency Manager

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
RACINE COUNTY --- 2.0 E BURLINGTON [42.67, -88.23]				
	06/21/11 18:03 CST		0	Hail (1.25 in)
	06/21/11 18:03 CST		0	Source: Trained Spotter
A trained spotter reported large hail, estimated to be 1.25 inches in diameter, that fell near a Y.M.C.A. camp east of Burlington.				
DANE COUNTY --- 4.0 SSW SUN PRAIRIE [43.13, -89.23]				
	06/21/11 18:27 CST		0	Hail (1.00 in)
	06/21/11 18:27 CST		0	Source: Trained Spotter
WAUKESHA COUNTY --- 0.4 SW MARCY [43.10, -88.13], 2.5 N ELM GROVE [43.09, -88.07], 0.8 SSE ELM GROVE [43.04, -88.07], 1.1 SSE BROOKFIELD [43.06, -88.14]				
	06/21/11 19:15 CST		5K	Flash Flood (due to Heavy Rain)
	06/21/11 23:00 CST		0	Source: Law Enforcement
Heavy downpours of rain, associated with a line of strong to severe thunderstorms that crossed southern Wisconsin during the afternoon and evening hours of June 21st, dropped between 1.5 inches and 2 inches of rain over a 1 to 2 hour time period. The heavy rains caused flash flooding that covered some roads with 1 to 2 feet of water. Law enforcement officials reported the intersection of Lily Road and Burleigh Road in Brookfield, was closed, as were many other roads in the surrounding area, due to the high water covering the roadways. Some basement flooding was also reported.				
MILWAUKEE COUNTY --- 1.2 NE FRANKLIN [42.88, -88.06], 1.0 NE NORTH MILWAUKEE [43.11, -87.94], 0.2 S SHOREWOOD [43.10, -87.88], 0.9 SSW FRANKLIN ARPT [42.86, -88.01]				
	06/21/11 19:30 CST		0.50K	Flash Flood (due to Heavy Rain)
	06/21/11 23:00 CST		0	Source: Law Enforcement
Heavy downpours of rain, associated with a line of strong to severe thunderstorms that crossed southern Wisconsin during the afternoon and evening hours of June 21st, dropped between 1.5 inches and 2 inches of rain over a 1 hour to a 1 1/2 hour time period. The heavy rain caused flash flooding that covered some roads with 1 to 2 feet of water. One lane of Highway 100 in Franklin was closed due to the high water, with a vehicle stalled in water on National Avenue and the Root River Parkway in West Allis.				
WALWORTH COUNTY --- 4.0 SE EAST TROY [42.74, -88.34]				
	06/21/11 19:50 CST		0	Thunderstorm Wind (EG 52 kt)
	06/21/11 19:50 CST		0	Source: Trained Spotter
A trained spotter reported large tree branches knocked down by thunderstorm wind gusts estimated to be as high as 60 mph (52 knots).				
WAUKESHA COUNTY --- MUKWONAGO [42.87, -88.33], BROOKFIELD [43.07, -88.15]				
	06/21/11 19:54 CST		0	Thunderstorm Wind (EG 61 kt)
	06/21/11 20:13 CST		0	Source: Trained Spotter
Part of a line of severe thunderstorms with damaging wind gusts up to 70 mph (60 knots) that blew down numerous trees moved through northeast and eastern Waukesha County during the middle afternoon of June 21st.				
WASHINGTON COUNTY --- 2.0 E HOLY HILL [43.24, -88.29]				
	06/21/11 20:33 CST		75K	Thunderstorm Wind (EG 56 kt)
	06/21/11 20:33 CST		0	Source: Trained Spotter
Part of a line of severe thunderstorms with damaging wind gusts estimated up to 64 mph (56 knots) that blew down numerous trees and power lines moved through southern Washington County during the middle afternoon of June 21st. The powerful wind gusts blew a tree down on a house and knocked down a barn near Holy Hill.				
A warm front lifted into southern Wisconsin ahead of slow-moving low pressure in Iowa. Moderate wind shear with 0-6km shear values of 35 to 45 knots and mixed layer (ML) CAPE in the 1500 to 2500J/kg range in place over the region combined with enhanced lift from an upper disturbance rotating through the base of an approaching upper trough to produce strong to severe supercell thunderstorms during the afternoon into the evening of June 21st. The storms produced two EF1 tornadoes in the vicinity of the nearly-stationary warm front that tracked along the border between Fond Du Lac County and Green Lake County. The severe thunderstorms also produced large hail and damaging wind gusts, including a 2-mile wide microburst across sections of Waukesha County that damaged homes, barns and felled thousands of trees and numerous power lines. In addition, the thunderstorms fed off a moisture-rich air mass moving into the region, with precipitable water values around 1.8 inch, that also produced heavy rainfall and flash flooding in portions of Waukesha and Milwaukee counties.				

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This is a velocity image from the Milwaukee/Sullivan WSR 88-D radar as the microburst associated with the bow echo/squall line passed just to the east of the NWS office (KMKX on the image) around 3 pm CDT on June 21st. The bright yellow on the image near Dousman represents 90 to 95 knot winds around 325 feet above ground level. The Civil Townships of Dousman and neighboring Summit were two of the hardest hit locations by the powerful downburst winds.

MILWAUKEE COUNTY --- CUDAHY [42.95, -87.85]				
	06/30/11 18:35 CST		40K	Thunderstorm Wind (EG 55 kt)
	06/30/11 18:35 CST		0	Source: Emergency Manager

The City of Cudahy Emergency Manager reported numerous trees down in the city. One tree severely damaged a mobile home-trailer.

RACINE COUNTY --- 4.0 NW WIND PT [42.82, -87.83], 2.0 E ELMWOOD PARK [42.70, -87.79]				
	06/30/11 18:45 CST		0.10M	Thunderstorm Wind (MG 71 kt)
	06/30/11 19:00 CST		0	Source: Law Enforcement

Law enforcement officials reported numerous trees and power lines down across far eastern Racine County from severe thunderstorm winds that gusted up to 82 mph (71 knots) measured by the ASOS at Racine Batten Airport. A C-130 cargo airplane parked at the airport was spun 40-50 degrees and moved 31 feet by the severe wind gusts. Many large branches were also broken off by the powerful winds, which also blew shingles off of several homes. The thunderstorm outflow winds caused roof damage to a house and garage in the 4800 block of State Highway 31.

KENOSHA COUNTY --- 4.5 E SOMERS [42.65, -87.81], DOWNTOWN KENOSHA [42.58, -87.83]				
	06/30/11 19:00 CST	1	0.10M	Thunderstorm Wind (EG 65 kt)
	06/30/11 19:20 CST	1	0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - June 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Law enforcement officials reported numerous trees and power lines down across far eastern Kenosha County from severe thunderstorm winds that gusted up to 75 mph (65 knots) as estimated by a trained spotter. A 31-year-old man riding a motorcycle was killed when a tree blew over on him in the 7600 block of 25th Avenue. A Pleasant Prairie woman injured her hip when she was struck by debris from a shed. Two other residents of the City of Kenosha were injured when they touched live wires brought down by the strong winds. Many large branches were also broken off by the powerful winds, which also damaged several homes. Officials estimate 500 to 800 trees were destroyed or badly damaged by the winds.				

Direct Fatalities: M31VE

A large supercell thunderstorm, just offshore over Lake Michigan, produced strong outflow winds that moved into far southeast Milwaukee County, and eastern sections of Racine and Kenosha counties during the evening of June 30th. Wind gusts up to 82 mph (71 knots) felled or caused extensive damage to numerous large trees that damaged homes, garages and vehicles, as well as dropped power lines across the affected areas. A motorcyclist in Kenosha was killed when a tree fell on him. At one point, 26,000 customers were without power in southeast Wisconsin. It took several days to restore power, with all customers back online by 3 pm CDT on Sunday, July 3rd.